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**FACSIMILE TRANSMISSION****Date:** November 1, 2002**To:** Fred Micke/Verneta Simon

USEPA

Fax #: 312-353-9176

Timothy Ramsey

Piper Rudnick

Fax #: 312-630-7350**Pages being transmitted, incl. Cover:** 3**CC:****Fax No.:****From:** Rich Berggreen**Phone:** 847-279-2500**Re:**

☐ Urgent ☐ For Signature ☐ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

Message:

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**STS CONSULTANTS**

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November 1, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Blvd., SE-5J
Chicago, Illinois 60604

RE: 341 E. Ohio Street, Radiation Survey of Adjacent Sidewalk Area – STS Project No. 1-25585-XI,
Correspondence No. 136

Dear Mr. Micke and Ms. Simon:

In response to your request made to Rich Berggreen on October 23, 2002, a field radiation survey was completed at areas adjacent to the above-referenced site, where radiologically-impacted soil appears to exist beneath the sidewalk. As you know, all radiological-impacted soil above the action level established in the Amended Removal Action Work Plan (7.1 pCi/g) was removed from within the property limits of the site during the recently completed Removal Action. Fill material exposed at three locations along the excavation wall beyond the property limits (beneath the sidewalk) appeared to exhibit radioactivity above the cleanup level based on the final verification surveys performed in those areas. This material was not removed because it was beyond the property limit. Furthermore, from a practical standpoint removing the fill would potentially result in undermining and settling or collapse of the sidewalk.

On October 29, 2002, a microR survey was conducted of the locations where impacted material is believed to remain beyond the property limit. The locations surveyed were:

- South sidewalk, along former project grid line A, between grid lines 3 to 4 and 12 to 14; and
- North sidewalk, along former project grid line N, between grid lines 8.5 to 12.

The following table presents the ranged of the microR readings at the sidewalk surface and at a distance of 1 meter above the sidewalk surface for the survey alignments noted above. The survey was performed using a Ludlum Model 3 MicroR Meter with 1' x 1' NaI probe (Serial No. 113256).

Location	Sidewalk Surface (μ R/hr)	1 meter above Sidewalk Surface (μ R/hr)
Along A, from 3 to 4	5 – 7	5 – 7
Along A, from 12 to 14	6 – 9	6 – 9
Along N, from 8.5 to 12	5 – 9	6 – 9

Attached please find the NUTRANL analytical results for samples collected from the locations exhibiting residual impacts. The samples are from A, 2.75 to 3.5; A, 12.25; and N, 10. The analysis shows total radium levels for these three locations of 5.86 pCi/g, 8.17 pCi/g, and 240.66 pCi/g, respectively.

Please contact us with any additional questions you may have regarding this matter.

Regards,

STS CONSULTANTS, LTD.


John S. Esser, P.E., P.G.
Senior Project Engineer


Richard G. Berggreen, C.P.G.
Principal Geologist

Attachments: NUTRANL Gamma Spec Report

Cc: Mr. Timothy Ramsey (Piper Rudnick)

Nutranl Gamma Spec Report- 341 East Ohio Street Site													
Sample ID	Sample	Sample	Description	Weight	U-238	U-238	U-238	Th-232	Th-232	Ra-226	Ra-226	Total Radium	Total Radium
Samples of Contamination Beneath Sidewalks					Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity
655	8/2/02	exclusion zone	S1381 A2.75-3.5 WALL	28.3	-0.88	3.82	4.58	1.14	1.28	1.48	5.88	1.852349860	
659	8/5/02	Pre EPA	S1363 A/12.25	31.3	-3.66	2.35	6.07	0.71	2.1	0.88	8.17	1.130707743	
842	9/11/02	exclusion zone	S1484 N-10 North Wall	25.9	-91.15	21.8	225.01	6.14	15.85	6.95	240.88	9.273731719	